ORIDA ARCHITECT

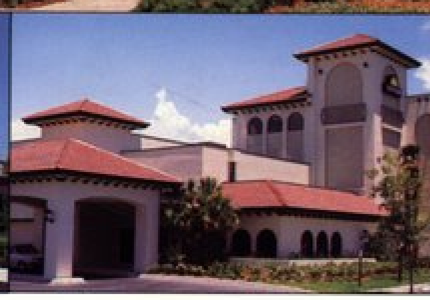
July/August, 1988

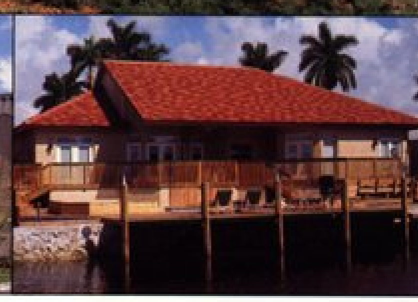


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For a description of U.L. Construction No. 260, plus additional facts on the advantages of using STYROFOAM brand insulation over metal decks, contact The Dow Chemical Company, STYROFOAM Brand Products, P.O. Box 1206, Midland, Michigan 48674.
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Cover photo of the Weston Clinic is by George Cott. Architecture by Mudano Associates Architects, Inc.

EDITORIAL

In an address delivered in January, 1988, to the American Institute of Architects in Washington, Lloyd Kaiser, President of Metropolitan Pittsburgh Public Broadcasting, Inc. and a public member of the AIA Board of Directors, discussed his "Six Kaiser Architectural Commandments" as "highly personal, certainly arbitrary and perhaps rather obvious" to some in the audience. Instead of rather obvious, I would choose the word "ideal," particularly for such commandments as "Great Architecture Requires Great Clients," something the practitioner is not always in control of, particularly the new practitioner.

There are however, several other "commandments" that the architect is in control of, but may on occasion lose sight of. These are not discussed as often as good clients, low bids and site restraints. For example, Kaiser told his audience that they must "generate the impulse to build." "Great architecture," he maintains, "requires a great vision: a compelling, exalted impulse to build . . . Barbara Tuchman has cited the Gothic building burst of the Middle Ages. All those soaring, vaulted cathedrals . . . what was the impulse?" Charles Kettering answered the question this way. "Nothing ever built arose to touch the skies unless some person dreamed that it should, some person believed that it could and some person willed that it must." Kaiser agrees with that premise.

With regard to historical perspective, Kaiser stressed that the architect must never lose it. "Architecture that denies its historical, social and intellectual context will not last," according to Kaiser. Television commentator Ted Koppel agrees. He says, "We are losing our ability to manage ideas, to contemplate, to think. What is largely missing in American life today is a sense of context, of saying or doing anything that is intended or even expected to live beyond the moment. But, we must accept responsibility for what we do and we must think occasionally of the future." Since the sins of the architect are usually rather permanent, accepting the responsibility for the future can be an awesome responsibility.

Kaiser feels that "great architecture demands informed criticism." He believes that "with knowledge, society will demand a higher level of design excellence." In conjunction with this idea, he has, in the past, suggested that the AIA implement a public membership category similar to the National Trust and the Smithsonian Associates as a way for the general public to share its concern for architectural excellence.

"The preservation of great architecture often requires protest." An interesting thought. Kaiser cites the story of Lord Barbizon's protest in Parliament when the first skyscrapers were being built in London. "Why make Westminster Abbey look like a country church? They ruin the charm of the present and make cheap the glories of the past." We, too, may need to protest, according to Kaiser, if we are to preserve the great architecture that has been created.

In closing his remarks, Kaiser referred to his first commandment which is clearly the one he holds most dear. He quoted a line from South Pacific in which Bloody Mary said, "You've gotta have a dream; cuz if you don't have a dream, how you gonna have a dream come true?" It's a line that we would all do well to remember. **DG**

FLORIDA **ARCHITECT**

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New Commissions

Architect's Design Group, Inc. has been selected to design a 10,000 s.f. addition to the University of Florida's J. Wayne Reitz Student Union. The added space will provide additional meeting facilities for students and faculty, a lecture hall, and conference room. Another project designed by ADG, Inc. is the City of Palm Bay's Public Works Facility which is scheduled for completion in September. The new building will consolidate the city's many scattered functions into one place. • **The Nichols Partnership, Inc.** is creating Beacon Center as an English village in the burgeoning commercial area west of Miami International Airport. Beacon Center will be a 205-acre suburban retail/office center set around a picturesque main street. • **Dow Howell Gilmore Associates, Inc.** has completed construction documents for Robinson Village Neighborhood Center. This multi-use facility is designed to accommodate the community needs of two adjacent housing complexes operated by the West Palm Beach Housing Authority. **Dow Howell Gilmore** has completed work on the Northwood Institute Student Housing project, a two-story complex surrounding a pair of courtyards which provide housing for 432 student/residents.

Expansion of the surgery department of Medical Center Hospital in Punta Gorda is presently being designed by **The Edge Group.** Four new operating rooms will be constructed at an expected cost of $750,000. **The Edge Group** is also designing a new laundry facility and central nursing station for National Heritage Incorporated's Darcy Hall Nursing Home in West Palm Beach. • Preliminary drawings for Our Saviour's Evangelical Lutheran Church located in Port Orange have been completed by **Keith Hock, AIA, Architect** of Daytona. • The Orlando firm of Swann & Haddock has selected **Morris ☆ Architects** to design the interiors for its new office. The firm will occupy 40,000 s.f. on two floors of the recently completed First, F.A. Building at duPont Centre, designed by **Morris-Aubry Architects.**

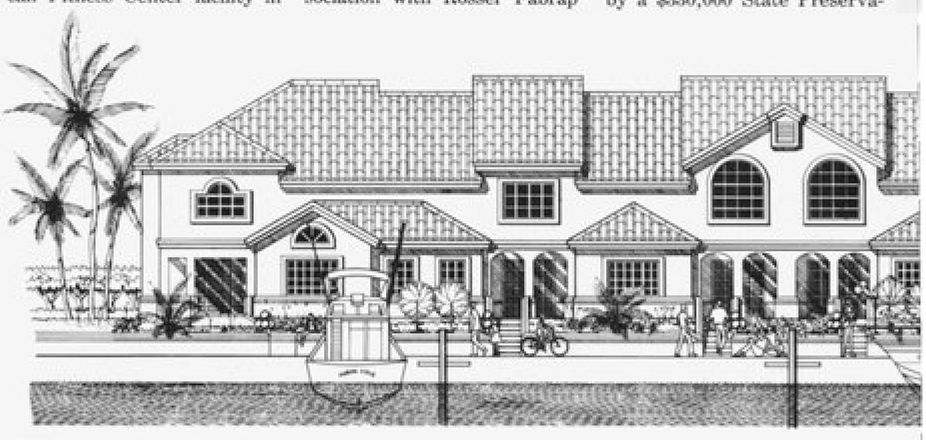
Robison + Associates, Inc. Interior Architecture has completed law offices for Quinton, Lummus, Dunwody & Adams, P.A. in the World Trade Center in Miami and Adorno, Allen, Schiff & Goodkind, P.A. in the Bayview Executive Center in Coconut Grove. Both interiors were designed by Lezlie Gail Poyastro. The law office of William L. Noriega, P.A. in the Amerifirst Building in Miami was designed by James Carballo. **Robison** has been commissioned to provide interior architecture services for Atico Savings Bank in Miami. Atico is renovating its downtown Miami building including its banking facility and executive offices.

Construction has begun on the $8,300,000 Women's Center at Morton Plant Hospital in Clearwater designed by **The Smith Korach Hayet Haynie Partnership.** The building will be five stories devoted strictly to women's services and psychiatry. Dr. Joyce Brothers was guest speaker at the groundbreaking ceremony in March. • **The Stewart Corporation Architects** has been selected by Authentic Development Corporation to provide architectural services for the newest American Fitness Center facility in Tampa. What is now an empty warehouse will soon be one of Tampa's foremost state-of-the-art total fitness centers. • Coppenbarger Homes of Jacksonville has announced plans for Seawalk, an 80-unit single-family development to be built near Ponte Vedra Beach on a a 39-acre site with marsh and lake views. The new zero-lot-line community will be designed by the Jacksonville division of **The Evans Group.**

The Dade County School Board has awarded a contract for $31,300,000 to design and construct a high school for 3,006 students in the Kendall area of Miami. The team which was selected includes Robert E. McKee Construction Co. of Dallas, Texas and the architecture firm of **Harper Carreno Inc.** of Miami. **Harper Carreno's** design consultants include the Houston firms of S.H.W.C. Architects and Galewsky and Johnston Engineers. The project is the first new high school in Miami in ten years. • BankAtlantic has selected the architectural firm of **Oliver-Glidden & Partners** to design their new prototypical 3,500 s.f. bank and to provide full interior design services for the banks. A Mediterranean style of architecture was selected to reflect BankAtlantic's Florida history.

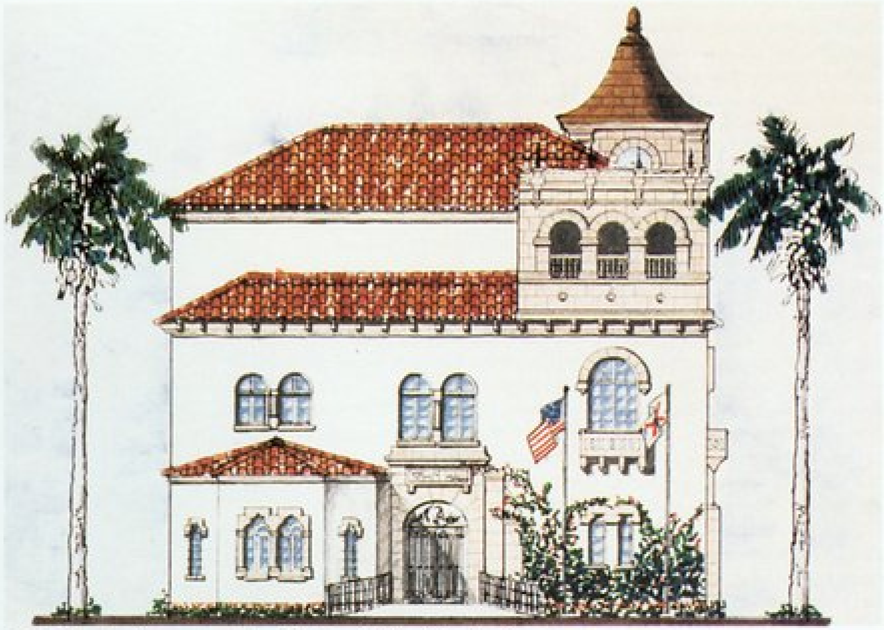
Briel Rhame Poynter & Houser, Architects-Engineers, Inc., in association with Rosser Fabrap International Justice Systems, Inc. of Atlanta and Shalloway, Foy, Schofield, Rayman & Newall, Inc. of West Palm Beach, have been selected by Palm Beach County to provide design services for the new pretrial detention facility. This project will add 968 beds and support areas to the existing facility and costs are estimated at $44.5 million. **Briehl Rhame** was also recently awarded a contract by the Department of the Navy, Southern Division, for design of a Dynamic Components Shop at the Naval Aviation Depot in Pensacola. New construction and rehabilitation of existing buildings encompassing 252,000 s.f. is estimated at over $10 million. **Briehl Rhame** is also designing a new $8.4 million campus building for Gulf Coast Community College in Panama City.

Oliver-Glidden & Partners has completed construction documents for the Fairway Professional Centre, the first phase of the PGA National Office Park. • Monaco Construction Company has retained **Keith C. Hock, AIA, Architects** for design of their new professional office building in the Port Orange area. • **Schmitt Design Associates, Architects-Planners** of Fort Myers has released plans to bidders for restoration and alterations to the 1915 Lee County Courthouse in Fort Myers. Supported in part by a $330,000 State Preserva-



RSH's Marina Cove in Palm Coast.

tion Grant, the restoration to the Beaux-Arts Revival masonry structure includes returning the original courtroom to its former appearance. Phase I, exterior restoration of the 1901 Murphy-Burroughs House in downtown Fort Myers has recently been completed, also under the direction of **Schmitt Design Associates.** The firm has been selected to oversee Phase II of the project, interior restoration and mechanical systems upgrade. • Sunrise Harbor, B.P. Associates' proposed residential complex, has been granted preliminary approval by the City of Coral Gables. Its twin towers will occupy a 10.5 acre site on the bank of the Coral Gables Waterway. Each 13-story structure, designed by **Robert M. Swedroe, AIA,** is sawtoothed to maximize the view of Biscayne Bay and Coral Gables. **Swedroe** has also been commissioned to design two residential communities destined for development in Islip, NY. Preliminary plans are nearing completion for Country Woods, a 359-unit program planned by New York's Holiday Organization, and The Estates at Sun Lake, a development planned by NAS Associates of Garden City. •**Bullock-Tice Associates Architects, Inc.** has been selected by Pensacola Junior College to design the new Center for Science Engineering and Technology, a 100,000 s.f. facility designed to emphasize advanced technologies. Once completed, this structure will play a key role in establishing a new gateway onto the Main Campus. • **Oliver-Glidden & Partners** has completed their design for the restoration and rehabilitation of the historic Seaboard Railway Station in West Palm Beach. • **VOA Associates, Inc.** has been selected by the Orange County Commission to design the new multi-million dollar Public Works Complex in South Orange County. **VOA** is currently programming and master planning the project.



Smith Obst Associates restoration of the Town Hall in Palm Beach.



Smith Obst Associates, Architects/Planners, Inc. has been selected as architect for the preservation and restoration of the Town Hall in Palm Beach. In addition to exterior restoration, the $500,000 project includes complete space planning of the administrative, building and fire departments. **Smith Obst** is also the architect for the Public Works Complex for the Town of Palm Beach. • **Fleischman-Garcia Architecture-Planning-Interior Design** has been selected to design the new headquarters building for the Southern Exchange Bank. Pending charter approval, the new bank will be constructed in Hyde Park in Tampa and will be sensitive to the historic architecture of the neighborhood. • **Schwab, Twitty & Hanser Architectural Group, Inc.** has been commissioned by the School Board of Broward County to design a new elementary school prototype. The base school will encompass 88,000 s.f. • **Miller Associates Architects** has been awarded contracts on two new shopping centers, both to be anchored by Winn Dixie Superstores. One is in Lee County and the other in Brandon. • **The Design Arts Group, Inc.** has recently been selected by Orange County to design the new $5.4 million Juvenile Court Facility in Orlando. The project is expected to break ground this fall.

Peacock & Lewis Architects and Planners, Inc. has completed the construction document phase of the 110,000 s.f. Florida Atlantic University Science and Engineering Building to be located on the Boca Raton campus. The 4-story building will house a 3,000 s.f. robotics lab. • **J. Douglas Snead, Jr., AIA, Architect, PA,** has completed the design for a new 169,000 s.f. Jacksonville Parts Depot for Volkswagen of America. The facility will house general offices, a training center and a parts distribution warehouse. • **Urban Design Studio** has completed master planning for the 417-acre Mecca Farms property in Broward County. **UDS** was retained to develop a 5-year development plan for the Mecca Farms property which will ultimately include about 1,200 single-family residences. • The President of Florida A & M University in Tallahassee is planning to move "on campus" by the end of 1988 into a new President's House designed by **Harper Carreno Inc.** The firm was contracted by the State University System to provide their services as a gift to the University.

Reefe Yamada & Associates has been chosen by Shannon Properties, Inc. to design a 14-story

retail and office center known as 501 Madison in downtown Tampa

Awards and Honors



501 Madison in downtown Tampa. The building combines retail, parking and offices in one high-rise structure. • Manhattan Town Center, the centerpiece of a long-term city revitalization plan aimed at maintaining Manhattan, Kansas' Central Business District, has opened for business. Located on a 36-acre parcel, the 325,000 s.f. shopping mall is anchored by two major department stores and was designed by the Fort Lauderdale office of **RTKL Associates, Inc.** • **Brown Cleary Smith + Associates** has designed nine homes for Orlando home builder Howard Pomp of First Southern Group. First Southern is building its new homes in a number of planned communities throughout metropolitan Orlando. • **Slattery & Root Architects** has been selected to provide design services for the addition of oceanfront suites to the existing Howard Johnson's Hotel in Juno Beach. **Slattery & Root** will also design a low income housing project in Delray Beach for Procacci Development. The program calls for 368 units on the site. • **Peacock & Lewis Architects and Planners** will design the 4,200 s.f. office building for the Chamber of Commerce of the Palm Beaches, Inc. • **Reynolds, Smith and Hills, Architects, Engineers and Planners, Inc.** is designing Marina Cove, a residential development in Palm Coast, Florida, for developer Walter A. Kehoe. The project involves 65 townhomes and 45 flats, sited around a 65-slip marina and bordering the intracoastal waterway. • One of central Florida's tallest buildings, the First F.A. Building at duPont Centre, designed by **Morris-Aubry Architects** has opened. The 28-story building has 11,000 s.f. of retail space and a 325,000 s.f. parking garage.

The Nichols Partnership has been chosen as architect for the Kyoto Palace, a 15-story, 178-room hotel on Miami Beach. Being developed by Carolyn Properties, the Kyoto will be the first deluxe hotel built on Miami Beach in more than 20 years.

The Nichols Partnership is the only architectural firm with more than one project on *Florida Trend* magazine's recent listing of 10 of the state's best designed commmercial buildings.

Harvard, Jolly, Marcet and Associates, Architects, PA, AIA, was recognized in the March, 1988 issue of the national reprographics magazine, *Plan and Print*. A feature article described **HJM's** methods of multiple-layer Contract Document preparation for complicated hospital projects. This procedure involves the use of multiple layers of architectural and engineering drawings, rather than the conventional technique of separate single-purpose plans. According to *Modern Healthcare Magazine's* 1988 Construction and Architect's Survey, **HJM** is the largest healthcare and medical specialty firm in Florida and it is ranked 40th in the U.S., based on square footage of medical facilities constructed in 1987.

Ray Scott, AIA, has been named the 1988 "Up and Comer in Architecture" at an awards luncheon in Orlando. The Up and Comers Award is sponsored annually by Price Waterhouse and the Orlando Business Journal to honor outstanding Central Florida leaders under the age of forty in 14 different business categories.

The Evans Group emerged as one of the top winners in the 1988 FAME Awards, (Florida Achievement in Marketing Excellence). Evans has received 59 FAME Awards in the five year history of the program. This year the firm won six awards in separate architectural categories including a first place FAME Award for the Polo House, a 7,500 s.f. luxury home in Plant City.





Top: *Orlando's duPont Centre designed by Morris-Aubry Architects.* Right: *RTKL's Manhattan Town Center is a new urban retail mall in Manhattan, Kansas. It blends comfortably with the city's historic limestone buildings.*

Urban Design Studio has been named winner of two gold first place Pinnacle Awards for outstanding design in 1987 competitions sponsored by the Florida Atlantic Builders Association. The firm received a first place award for Shoppes on the Green, an upscale neighborhood shopping center that serves residents of the PGA National Community. The second award was for the landscape architecture at the Founder's Lot Development in the Loxahatchee Club in Jupiter.

Architect and author **Jorge Arango, AIA,** spoke at a week long annual forum on "The Urban Memory" sponsored by the Universidad de Los Andes in Bogota, Columbia. The forum, held last March, included such prominent speakers as Mario Botta and Kenneth Frampton.

Golf Brook Apartments in South Seminole County and a master bath at McIntyre Place in Winter Park were selected as recipients of a 1988 First Place FAME Award. **Charlan, Brock & Associates** were architects on both projects. The FAME Awards are sponsored by the Builders Association of South Florida and the Miami Herald for the purpose of recognizing Florida Achievement in Marketing Excellence.

Miller Associates Architects has received a 1987 Gold Brick Award for its offices in downtown Orlando. The firm transformed a 50-year-old residence into office space which recognized the potential of the original building.

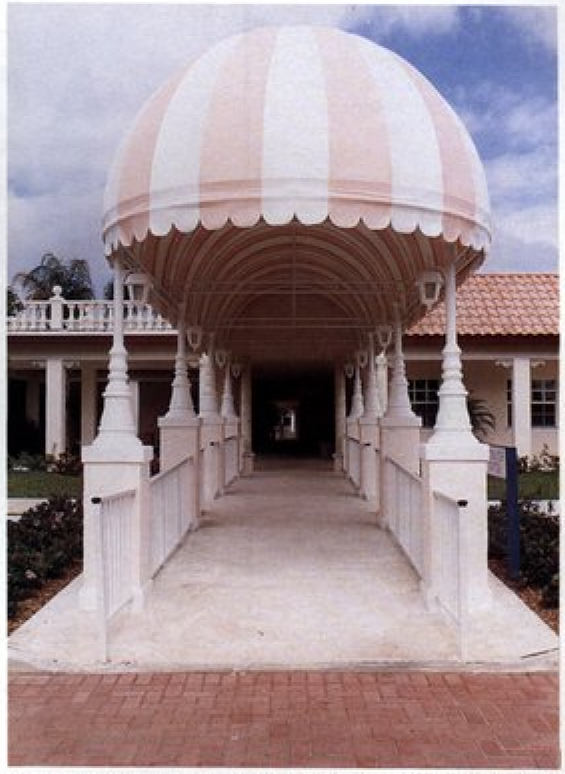
The Howitt Ophthalmological Clinic in North Miami designed by **Barry Sugerman, AIA,** wqas the recipient of a 1987 FAME Award. Now Sugerman has received an Award of Excellence for Redevelopment in the City of North Miami presented by the City of North Miami.

Larry Schneider, AIA, a partner in the architectural firm of **Currie Schneider Associates AIA, PA,** has been elected to Chair the Building Code Advisory Board of Palm Beach County. The Board's purpose is to promote uniformity among construction codes within the incorporated and unincorporated areas of Palm Beach County. Schneider is a former vice chairman for the committee and immediate past Chairman of the Palm Beach County Fire Code Advisory Board.

The Taussig House, "an underground house nestled into a Missouri River bluff" was designed by Jacksonville's **Charles E. King, FAIA,** and was featured in the April, 1988 issue of Architectural Digest's *Architecture* magazine.

Charles Harrison Pawley, AIA, received the National Glass Association's Award for Excellence in Residential Design. The house was the sole recipient nationwide for this award. The judges noted "the spectacular use of glass and its harmony with the environment."

Randall Atlas, Ph.D., AIA, of **Randall Atlas Architectural Security Consultants** in Miami, recently joined the distinguished group of security consultants who have earned recognition as a Certified Protection Professional (CPP). Over 3,000 security practitioners worldwide have been awarded the CPP credential, which attests to an individ-



Fountainview, a retirement home designed by Herbert Pecht, AIA, won the best overall awning project with Awnings by Jay. The award was presented by the Southern Canvas Products Association.



A private residence in Miami by Charles Harrison Pawley, AIA.

ual's mastery of the body of security knowledge through job-experience and academic study.

VOA Associates, Inc. is featured in the March/April issue of *Professional Office Design* for their design of the corporate offices of Peat Markwick Main & Co.

Slattery & Root Architects won four Gold Awards for First Place in the 1988 Pinnacle Awards sponsored by the Florida Atlantic Builder's Association. The winning projects included the Coral Springs Animal Hospital, the Normandy Model at Frenchman's Creek, the renovation of a residence in Royal Palm Yacht Club and the renovations to the Deerfield Beach City Hall.

Urban Design Studio had three of its largest projects honored with 1988 FAME awards. The projects include Loxahatchee Club in Jupiter, Mariner's Cove in Palm Beach Gardens and Royal Palm Cove at the Polo Club of Boca Raton.

Ranon & Partners, Inc. received an award for design excellence from the Hillsborough County City-County Planning Commission for the design of the Bayshore Professional Center. The building was noted for recognition of outstanding design achievement in the small office building category.

Schwab & Twitty Architects, Inc. received two FAME Awards. The first was for an estate home in the Palm Beach Polo & Country Club developed by The Landfall Group. The other was for Villa Nova, a luxury oceanfront condominium in Highland Beach.

Books

Post-Occupancy Evaluation
by Tim White, AIA
co-authored with
Wolfgang F.E. Preiser
and Harvey Z. Raninowitz
VanNostrand Reinhold Co.,
New York

This new book provides an historical and theoretical background of performance-based evaluation, outlining the steps, activities and resources required to carry out post-occupancy evaluations in the field.

Architecture for the Church
by The Liturgical Architecture Committee of the Houston Chapter, AIA

This client-oriented booklet's purpose is to foster communication between architect and client and to clarify the roles involved in planning, designing and building a place of worship.

The booklet is useful both as a marketing tool to be included in presentation materials and as an aid to carrying out the job if each member of the building committee has a copy, and reads it.

Single copies are available for $3.00. Ten or more are $2.00 each plus postage and handling. Order from the Houston Chapter/AIA, 20 Greenway Plaza, #246, Houston, Texas 77046, (713) 622-2081.

CORREX

Please note that *FA* was given incorrect information for the credits on Tampa's Island Center which was featured in the May/June Issue. The credit should have read:
Morris ☆ Architects, formerly Morris/Aubry Architects
Eugene Aubry, FAIA, Design Architect

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Roof Penetrations

by D. B. Young, Jr., AIA, CCS

Pitch pans, never designed nor recommended by NRCA, are used frequently to flash miscellaneous mechanical or electrical roof penetrations and/or protrusions. The pitch pan is, in fact, a constant maintenance item for building owners. Then why are pitch pans so frequently used on roofs today?

The reason for their use is the lack of design. Today's designers are not aware of the penetrations that will occur on the roofs. For the roof-top exhaust fans, is the fan internally wired (Drawing 1A) or externally wired with a conduit penetration (Drawing 1B)?

To correct this "lack of design," first develop a comprehensive roof plan showing all the roof-top equipment and fixtures. Next, coordinate the equipment data sheets to develop the type and number of roof penetrations. It is this coordination that will establish whether this exhaust fan will have a roof penetration, and if so, what type of penetration it is. With the type of penetrations/protrusions determined with their layout the designer needs to design for each individual condition.

Today's membrane systems often have pre-formed flashings, which are compatible with the membrane in terms of installation, and are covered under the membrane manufacturer's warranty. Therefore, the use of these flashings should be maximized in the roof design. An example of these pre-formed flashings are "pipe seals" (Drawing 2). However, it is essential that these flashings be detailed and specified, or the less expensive pitch pan will be utilized.

For the multi-pipe penetration or a specialized suport, the membrane's standard preformed flashing cannot be used. Therefore, pre-fabricated flashing of maintenance-free and condensation-free design and durability should be utilized.

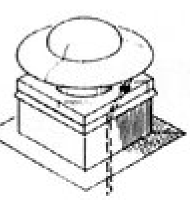


Figure 1A

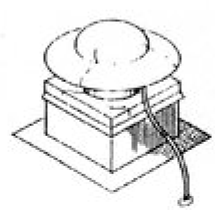


Figure 1B

In the selection of pre-fabricated flashing, the following should be considered:

- The ability of the flashing to accept vertical or horizontal movement or protrusion expansion without damage.
- Metal flashing and hardware fabricated from stainless steel, aluminum, or copper for maintenance-free durability.
- Base flashing compatible with the roof membrane to insure a watertight installation. Several manufacturer's preformed flashings are fabricated with various base flashing materials for membrane compatibility.
- Insulated, as required, to prevent condensation into the building or condensation damage to the membrane.

Pre-fabricated flashings are available in a multitude of configurations for various conditions. The configurations include the simple multiple pipe penetration to complex equipment penetration supports (Drawings 3 and 4).

The author is president of D.B. Young & Associates in Orlando, Florida.



Figure 2

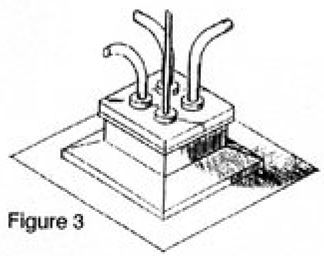
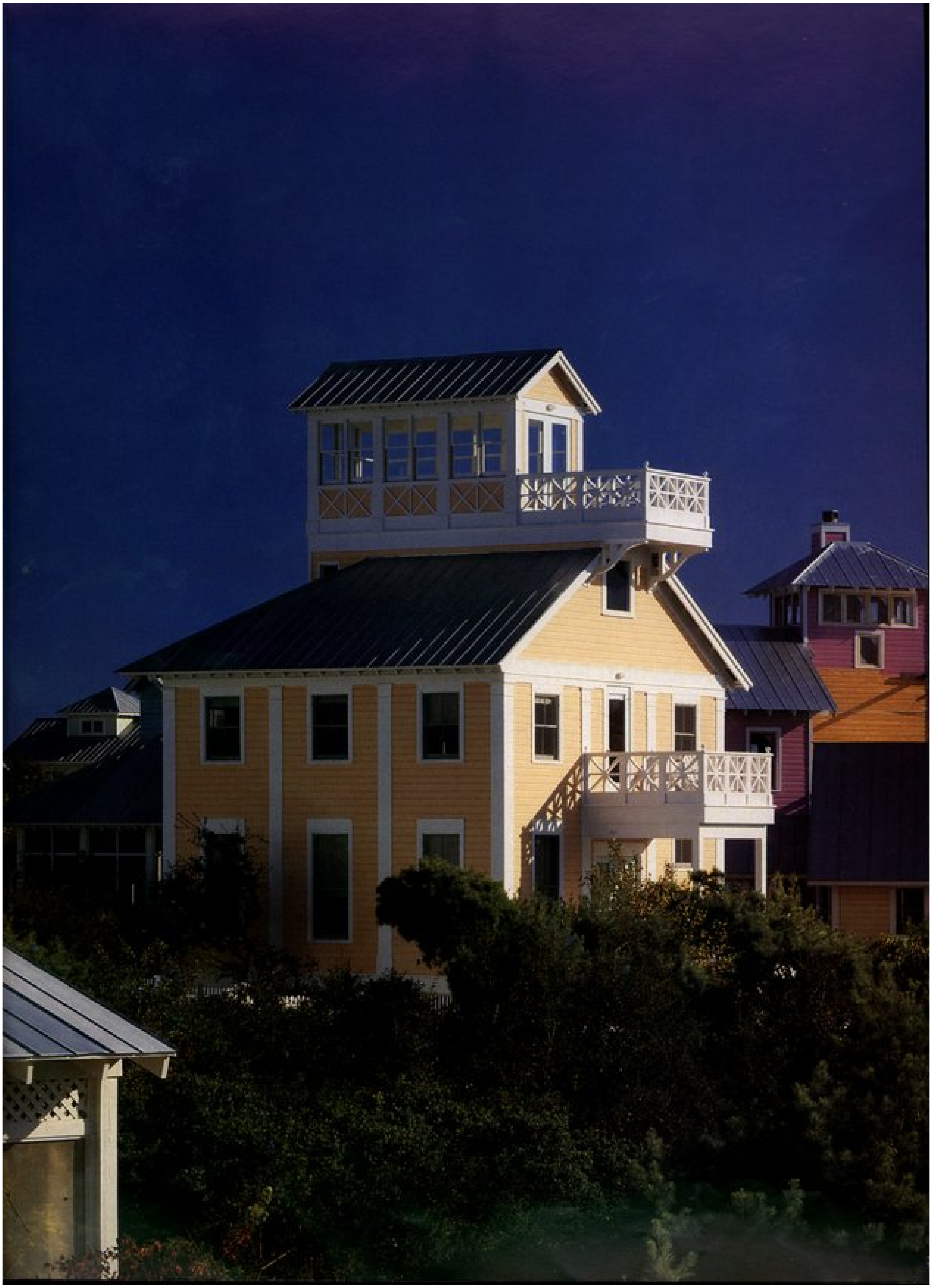


Figure 3

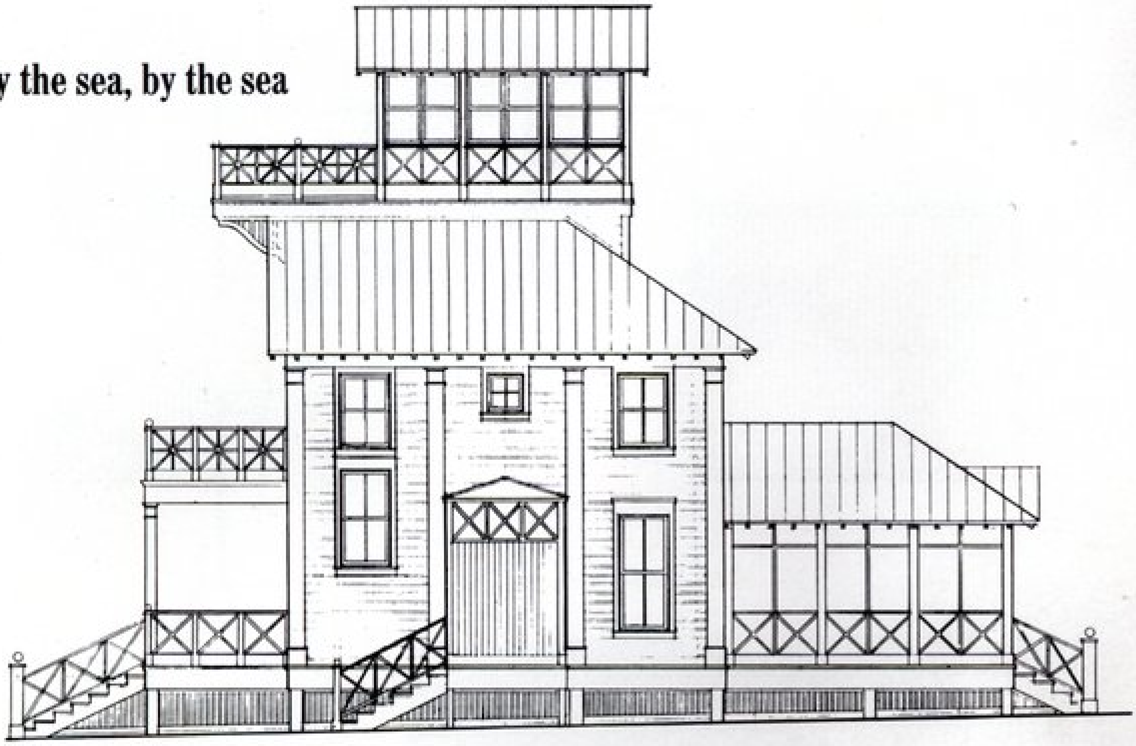


Figure 4

Graphics by S. Gatlin



By the sea, by the sea



Cooper Residence
Seaside, Florida

Architect: Cooper Johnson Architects in association with Libby Gee Cooper
Contractor: O.B. Laurent Construction
Owner: Don and Libby Cooper

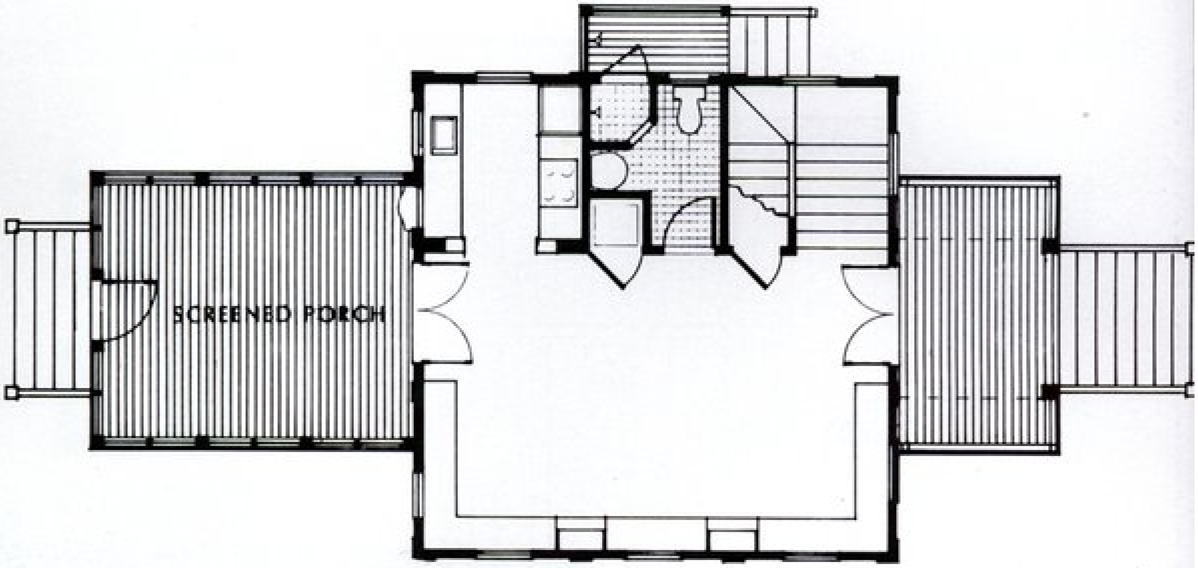
This page, top, elevation courtesy of Cooper Johnson Architects. Right, *view of residence showing tower room and balcony*. Facing page, *Coooper house amidst surrounding Seaside residences*. Photos by Steven Brooke.

The stringent building codes in the town of Seaside on Florida's West Coast dictate much of the residential design that is found there. Picket fences, screened porches and roofs with deep overhangs and exposed rafter ends are all required by zoning. Things like shiplap siding and roofing tin are on a list of approved building materials.

When architects Don and Libby Cooper decided to build a home at Seaside, they sought to impart their own personality to the 1,350 square foot structure despite the stringent building requirements. In order to do this they decided to borrow a bit of boat imagery.

Storage lockers were built into the main room on the first floor to conceal beach accoutrements. The galley kitchen was organized for maximum efficiency. Bleached pine floors are an allegory to the sandy site while upstairs, the wooden grid floor was inspired by hatch





covers. As one ascends through the house's four levels, the stairs gradually decrease in size and grandeur from an eight foot width at the front porch to a ship's ladder leading to the sleeping loft and the "lookout" tower room.

The tower room was placed atop the main roof to provide an unobstructed view of the Gulf of Mexico, the neighboring rooftops and the beautiful beach sunsets.

Sited on an axis with Tupelo Circle, the Cooper House was designed with two fronts. On the east, one facade faces the Circle and has a screened porch and hipped roof. The western facade faces a public footpath and has a gabled roof and wide steps leading to a large open porch with small deck above which acts as an entry portico. To this assemblage, a balcony was added.

While hoping to capture some of the charm of the community, the Coopers opted for a square house plan with refined ornament. The body of the house is ordered with regularly spaced two-story pilasters on all four sides. The details that appear in the exterior gates and railings are repeated inside on the face of window seats and in the openings from the sleeping loft to the third floor. Interior tongue-in-groove walls and ceilings contributed to the "considerable spatial richness in the relatively small house."

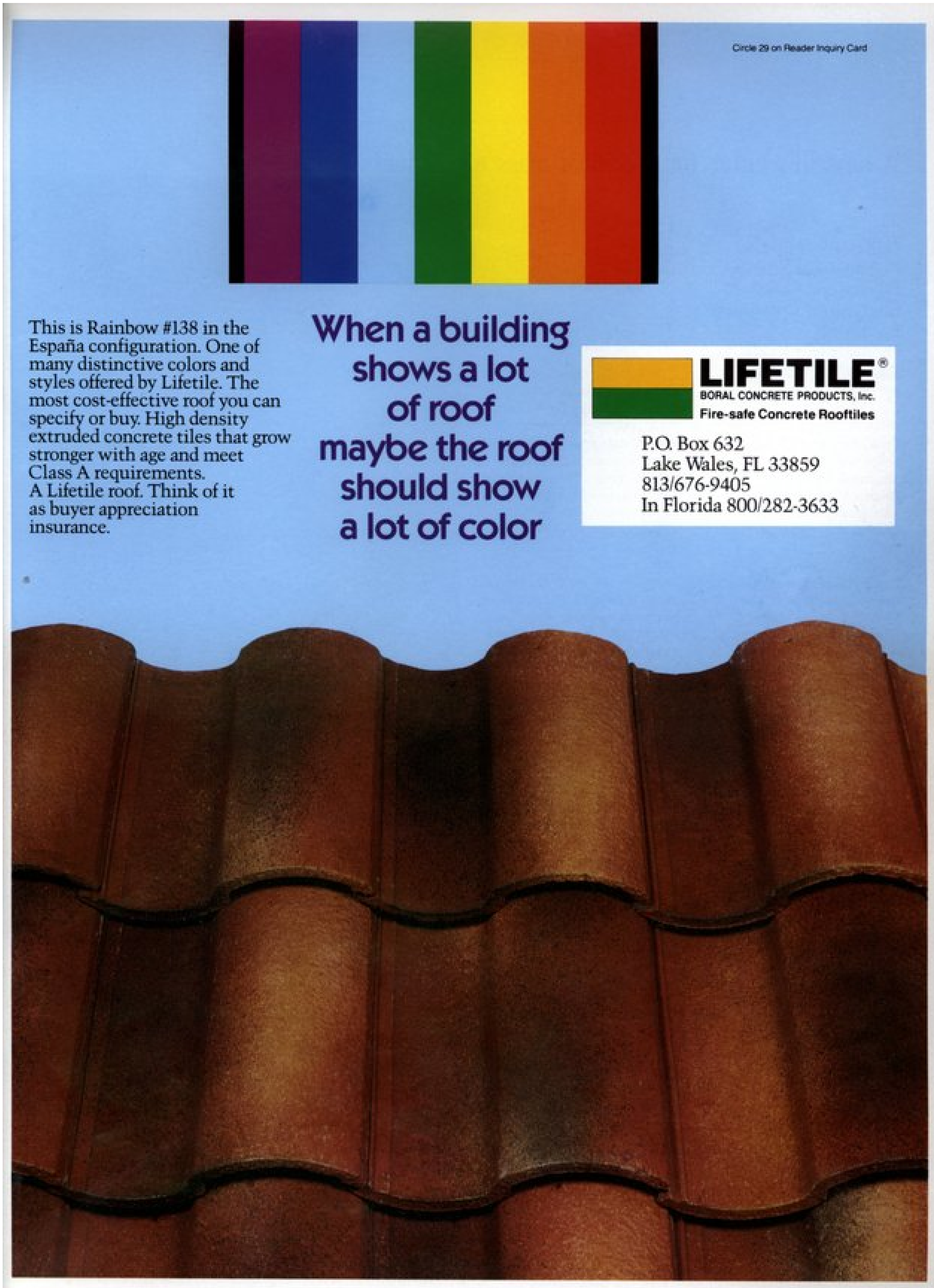
Renee Garrison

The author is architecture writer for **The Tampa Tribune.**

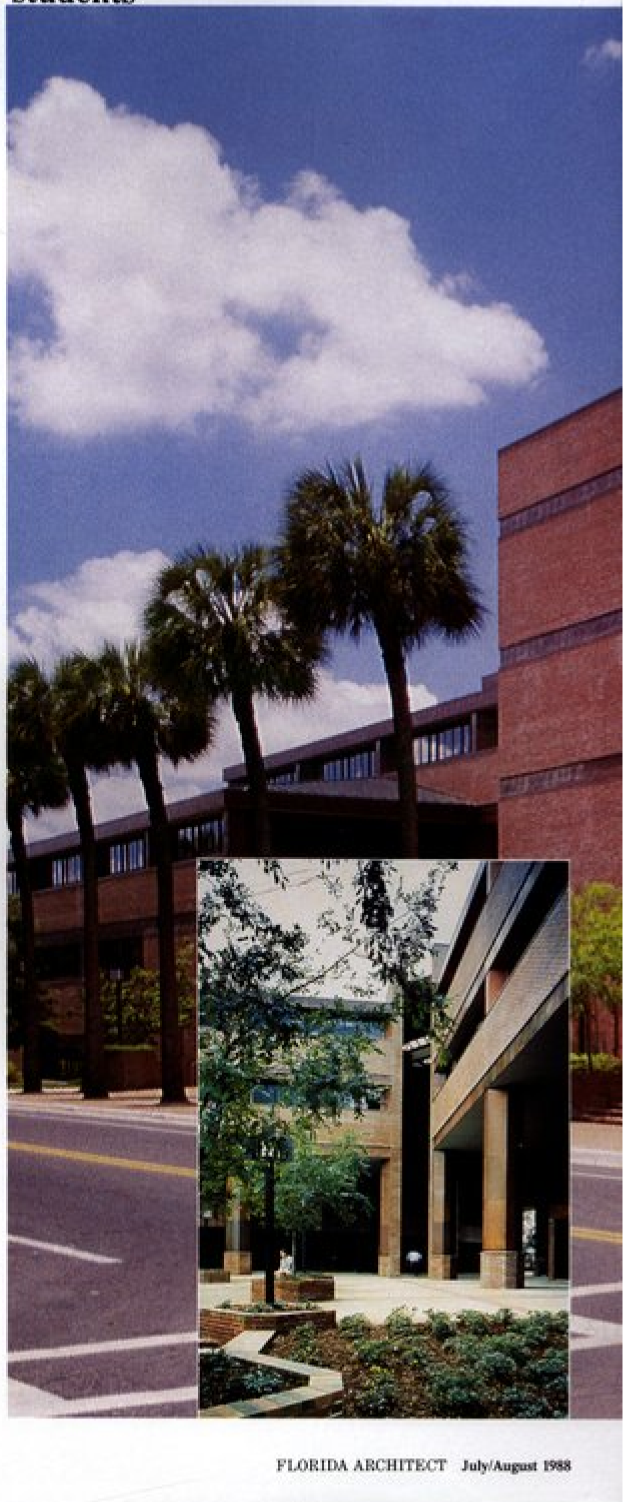


Plan top courtesy of Cooper Johnson Architect. Above left, *living-dining room and* right, *dining room. Note tall ceilings, windows and hardwood floors.* Photos by Steven Brooke.




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A new UF center for a critical mass of students



University of Florida Consolidated Sciences Library and College of Engineering Computer Facility Gainesville, Florida

Architect: Vickrey/Ovresat/Awsumb Associates, Inc. (VOA) Orlando, Florida
Civil Engineer: Post, Buckley, Schuh & Jernigan
Structural, Mechanical, Electrical Engineer: Tilden, Lobnitz and Cooper
Landscape Architect: Herbert Halback, Inc.
Interior Design: VOA, Inc.
Construction Manager: Gilbane Building Company
Owner: State of Florida, Florida University System

Long-standing space requirements for two important programs at the University of Florida have finally been satisfied with the construction of the Consolidated Sciences Library and the College of Engineering Computer Facility complex. Additionally, the combination of these heavily-used facilities forms a "critical mass" of students which generates a new center of student activity at the heart of the Gainesville campus.

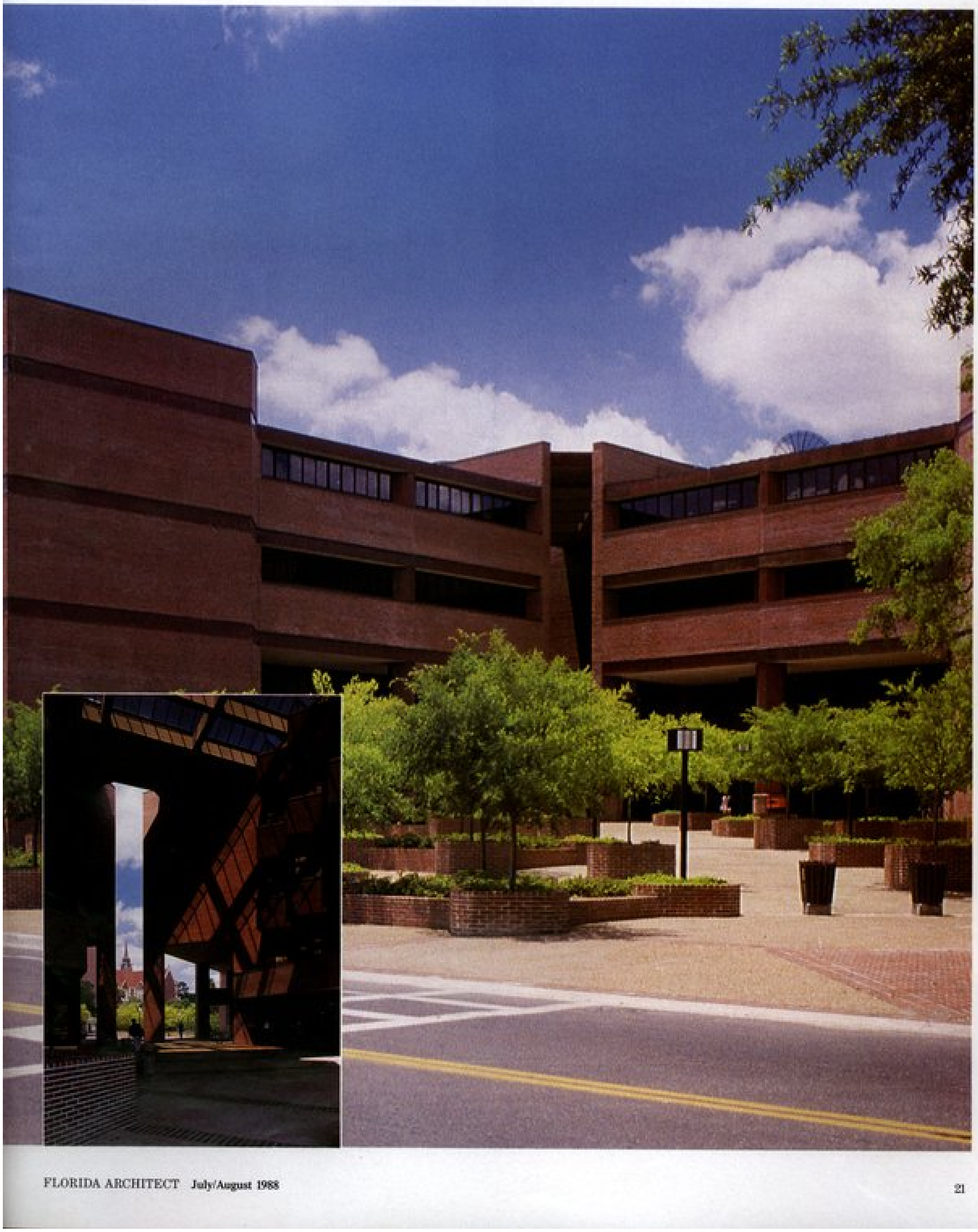
The 100,000 square foot library consolidates nine collections from four principal science-oriented branch libraries, including physics, mathematics and IFAS. The library accomodates over 800,000 books, 200,000 non-print items and seating for 1,250 students. The 120,000 square foot computer facility provides faculty and graduate student research laboratories, as well as four mainframe computer environments, a 250-seat terminal/PC laboratory, classrooms, auditorium space and 150 faculty offices.

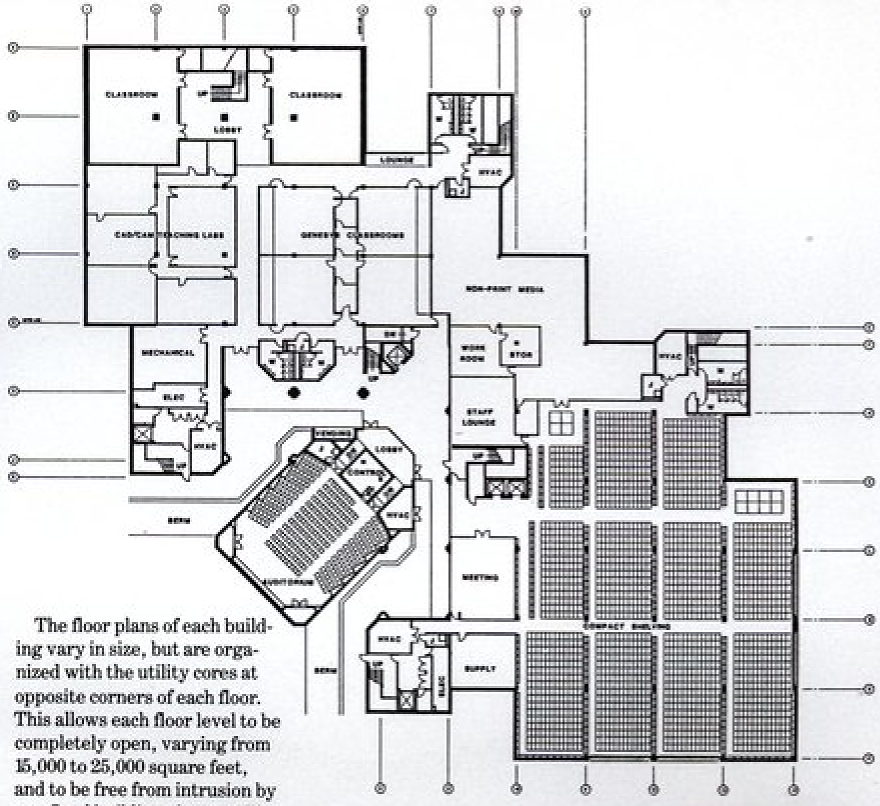
To better understand the scope of the design task, the design team, led by Calvin Peck, AIA, spent several weeks on the UF campus completing program research and site analyses, working with user groups to define specific objectives and requirements, and developing alternate design concepts for the building and site. The resulting design solution was driven by the desire to create a sense of place on the campus; by site considerations, including a height limitation of 62 feet and the physical walkway connection continuing through the building; by the requirements for large, open, flexible floor areas; and by the project funding split over two legislative sessions.

In plan, the square site is organized into quadrants, with the building elements aligned along the northwest-southeast diagonal, and the open spaces aligned along the southwest-northeast circulation path through the site.

The plaza to the northeast connects with the existing open area fronting on Turlington Hall to form a large, hardscaped open area. The plaza is designed as a passive space, with raised planters providing seating and low canopy trees defining a more intimate scale for conversation and relaxation.

Right, *Plaza was designed as a passive space with raised planters for seating*. Photo by Robert W. Kelley, AIA. Inset, left, *walkway connection through the building* by Eric Oxendorf. Right, *view of Turlington Hall through walkway* by Robert W. Kelley, AIA.





The open area in the southwest quadrant, the "podium", rises nine feet from the Mall in a series of circular walls and planted banks which continue the Mall into and through the building. The low walls provide seating areas as well as a lyrical counterpoint to the building structure. These areas, shaded by small canopy trees, provide long views of the Mall and short views of the pond.

At the intersection of the site quadrants is the Atrium, which identifies and defines the entry to both buildings and connects the major campus open spaces, the Mall and the Plaza of the Americas. The 3-story Atrium is entered through a narrow vertical opening which frames Century Tower to the north and the Mall to the south. Additionally, the base of the building structure at the Atrium is eroded away to provide a lower-scaled sense of entry into the Atrium and to allow sunlight into the first level which is partially below grade.

The design solution, encompassing 230,000 square feet, is the largest academic building on the UF campus. The five-level structure steps back from the adjacent streets to the low scale of the surrounding buildings — a relationship which is enhanced by the horizontal banding of brick and copper on the lower elements.

A sense of place and direction was extremely important to the architect in a building of this size. Feeling that a university campus is stressful by its very definition, the architect wanted to create a building that was not intimidating and made students feel comfortable when using it. To accomplish this, the upper level stairways in both buildings overlook the Atrium, providing a security factor for students and allowing full view of the Atrium. This provides a sense of orientation at every level.

The floor plans of each building vary in size, but are organized with the utility cores at opposite corners of each floor. This allows each floor level to be completely open, varying from 15,000 to 25,000 square feet, and to be free from intrusion by any fixed building element. The utility core towers are banded with copper to break down the apparent vertical scale.

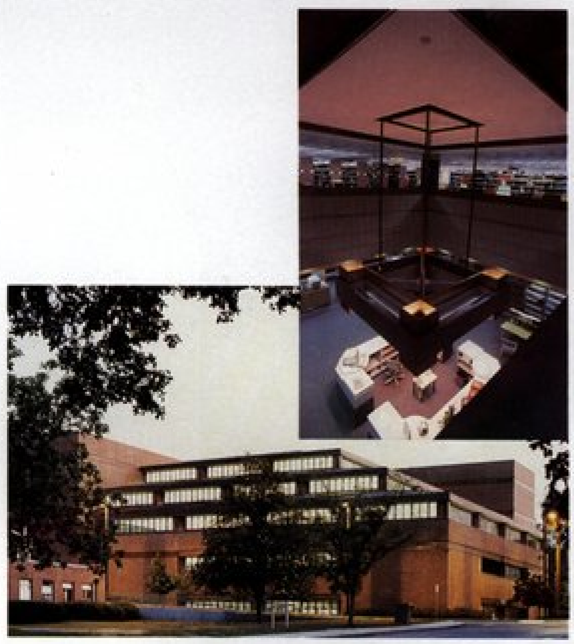
On the main floor of the library, one bay was left open above the information counter to provide a sense of volume between floors. It is the only true formal space in the building and it contains a custom-made light fixture which drops two floors to suspend over the information desk.

Exterior building materials included "Gainesville Range" brick which ties the structure back into the fabric of the campus, copper, brass and glass.

Flexibility in the library is enhanced by the interior furnishings, which utilize a color palette ranging from violet to green which is interchangeable between floors. The copper banding from the exterior is also apparent on the interior, where it is used as an accent where the columns meet the ceiling.

De Schofield

The author is a writer living in Orlando.



First floor plan courtesy of VOA Associates. Photos of interior and exterior of library by Eric Oxendorf. According to John Carlson, Director of Facilities Planning for UF, *"The 230,000 square foot facility provides state-of-the-art space for two functionally distinct uses in an envelope that disguises the building's size. The structure enhances the urban design of the campus by providing a well-defined transition between two open-space networks which are vital elements of the campus plan."*

A link in a chain of monuments

550 Biltmore Building
Coral Gables, Florida

Architect: Joint venture between Thomas A. Spain, AIA, and O.K. Houston.
Design Architect: Thomas A. Spain, AIA
Construction Document Architect: O.K. Houston
Project Architect: Glenn Pratt, AIA
Mechanical/Electrical Engineer: Franyie Engineers, Inc.
Civil Engineer: Carlos Cardosa, P.E.
Owner: Albert H. Sakolsky and Edward J. McBride

The 550 Biltmore Building is on Biltmore Way in Coral Gables. Biltmore Way is an ambivalent, transitional street which is neither classically urban, nor suburban. It has neither clearly defined public spaces, nor refined objects in the landscape. In fact, Biltmore Way most closely resembles a boulevard with buildings defining the street while maintaining their own identity. The buildings which line it vary from highrise hotels to lowrise commercial structures which, when combined with the zoned setbacks, serve to punctuate the street and make it seem all the more unorthodox. These conditions, combined with the complex desires of the builder, produced a structure with multiple uses, interpretations and aspirations.

The most distinguishing characteristic of the 550 Building is its civic-mindedness. At a symbolic level, it provides a fountain which refers to the city's public image and serves as a link in a chain of monuments and plazas connecting the Douglas Entrance with the Biltmore Hotel. At an activity level, it provides shops, galleries and restaurants which animate the sidewalk. At the level of urban texture, it provides two bronze lions, etched granite paving, travertine marble benches and planters, royal palms, and at Christmas, a forty foot tall cone of poincianas.

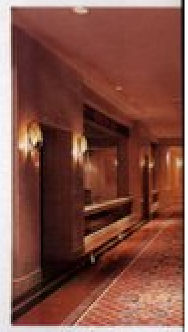
The quality of its citizenship and urbanity does not end at the sidewalk. One of the 550 Building's major determinates was the establishment of a single form rather than an office block riding an underfinished and oversized parking garage base. The multi-stepped form, reminiscent of Tony Garnier's Slaughter House at LaMouche in Lyons, France, is one of the few geometries which satisfied this criteria. The result is that little, if any, of the garage is perceived from the street. Finally, the building satisfies its obligation to the skyline by offering a warmly lit and identifiable object on the horizon.

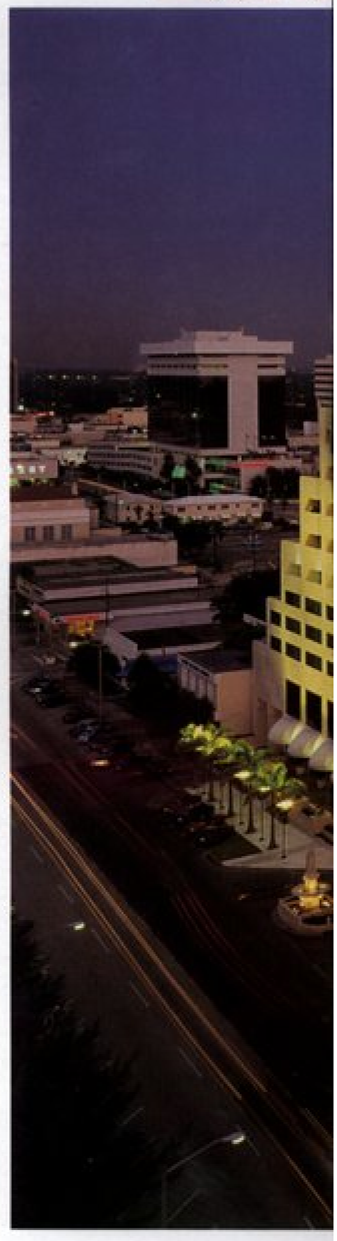
An additional characteristic of the 550 Building is the uncommon use of balconies and terraces in a commercial program. The balconies lend a thick, carved, sculptural quality to the marble element which is in direct contrast to the tight, thin quality of the glass. This duality shows the designer's preoccupation with composition and references the needs of South Florida buildings for more than one layer to protect it from the sun.

Ultimately, the most interesting characteristic of the building is the manner in which it was built. The owner of 550 is a Master Builder and he personally assembled and coordinated all the people necessary to produce the structure. He purchased the granite blocks in Sweden and had them shipped to Italy for cutting and polishing. He took sketches of the fountain to Italy and had it carved. He and his wife spent two weeks designing and supervising the casting of the bronze lions. He bought the lamps, furniture, storefronts and brass trim directly from the manufacturers in Italy. The list of his contributions to the project seems endless and includes many bumpy reconciliations of ideas on design and construction. As a result, design was never a one-time or one-person event. It continued well into the construction phase, and in some areas is still going on. Although the building is constructed of hard, cold materials and is sternly monumental, the care, the heart and the pleasure of its making are very obvious. These will probably be its most lasting characteristics.

Joanna Lombard, AIA

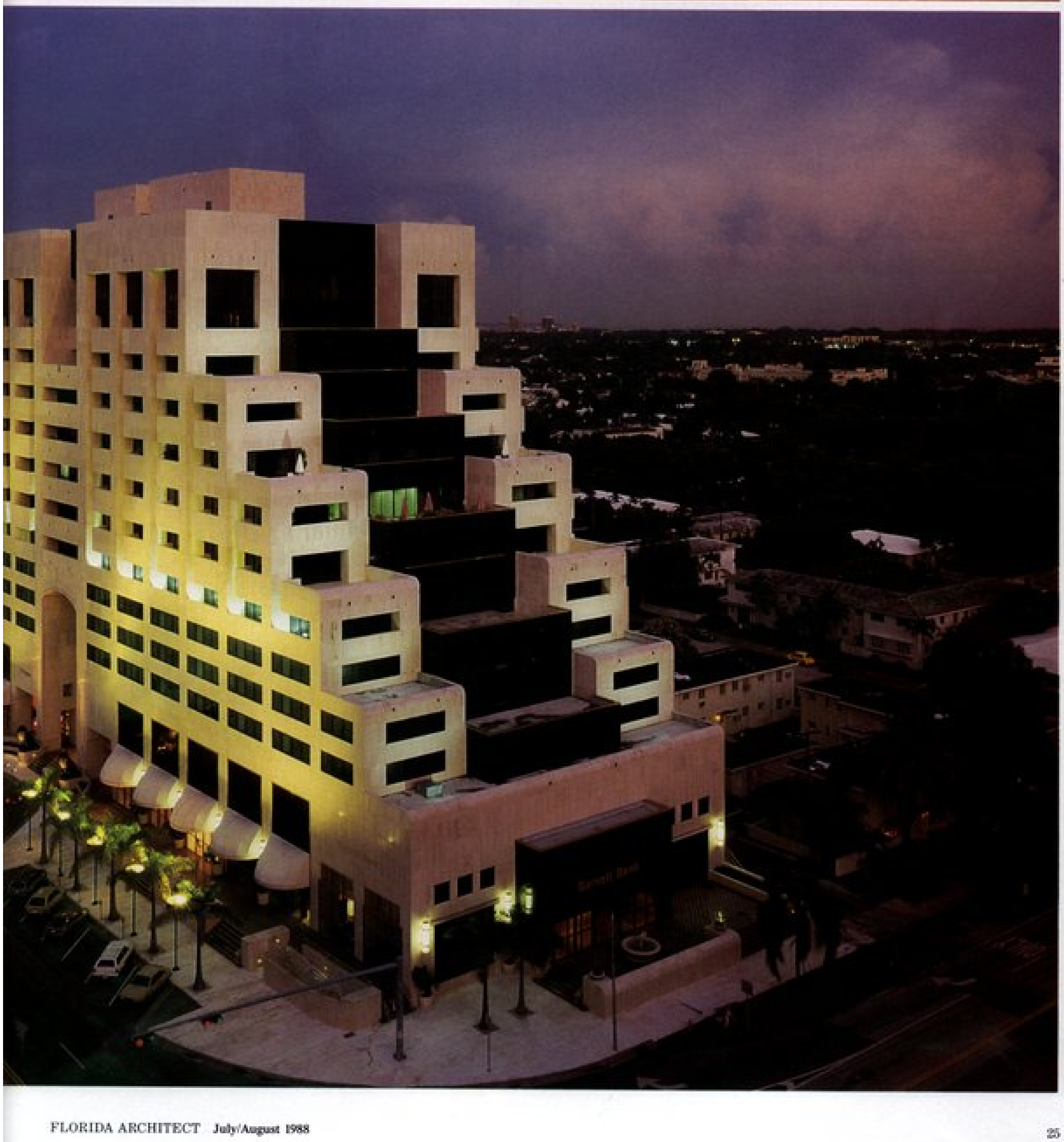
The author is an architect and teaches in the School of Architecture at the University of Miami.





Top, left, *the main entrance to the Barnett Bank which anchors the building on the north*. Middle, *elevator lobby and* right, *restaurant*. All photos by Steven Brooke.



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A homeplace on a wooded hill

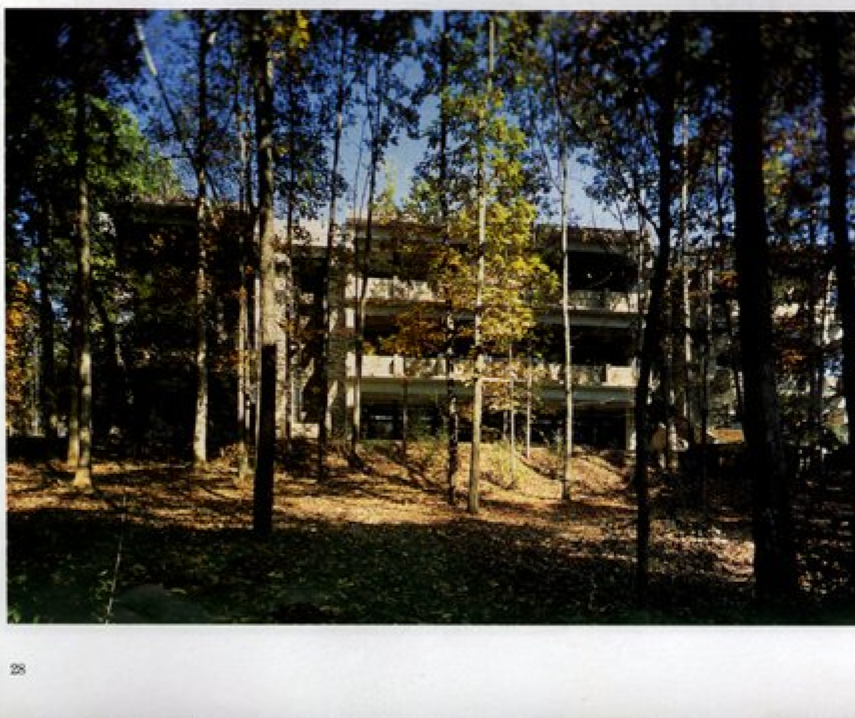
The Keilhack Residence Charlotte, North Carolina

Architect: Gene Leedy, Architect
Contractor: Hans Keilhack, Keiltex Corporation
Owner: Hans Keilhack



Right, *the sloping site is clearly visible from the west elevation of the house. Photos of east and south facades and main entry,* opposite, by Gene Leedy, AIA, recipient of a 1987 Prestressed Concrete Institute Design Award.

Twenty years ago, Hans Keilhack came to the United States as an executive for a German Textile machinery company. He later became a citizen, married and started his own business in North Carolina. The business prospered into a successful manufacturing consortium which included textile machinery, computers and fabric dyeing equipment. In the European tradition, Keilhack and his wife opted to set up roots and did so by building a "homeplace" on a thirty acre sloping site overlooking a large lake near Charlotte, North Carolina.



Architect Gene Leedy, along with his clients, chose to use a prestressed-precast concrete building system for several reasons. First, the components of the system could be manufactured under factory conditions and put together by a large crane like an erector set. Second, the environment dictated that the building be set down gently on the brow of a hill without disturbing any of the trees on the site. With prestressed concrete , there is little or no maintenance once construction is complete.

A buff-colored brick, locally manufactured, was selected for the infill between the structural members. The concrete structural system consists of 24-inch square precast columns, precast beams and 24-inch deep "double tee stem" units spanning the distance between the beams. The floors on the entry

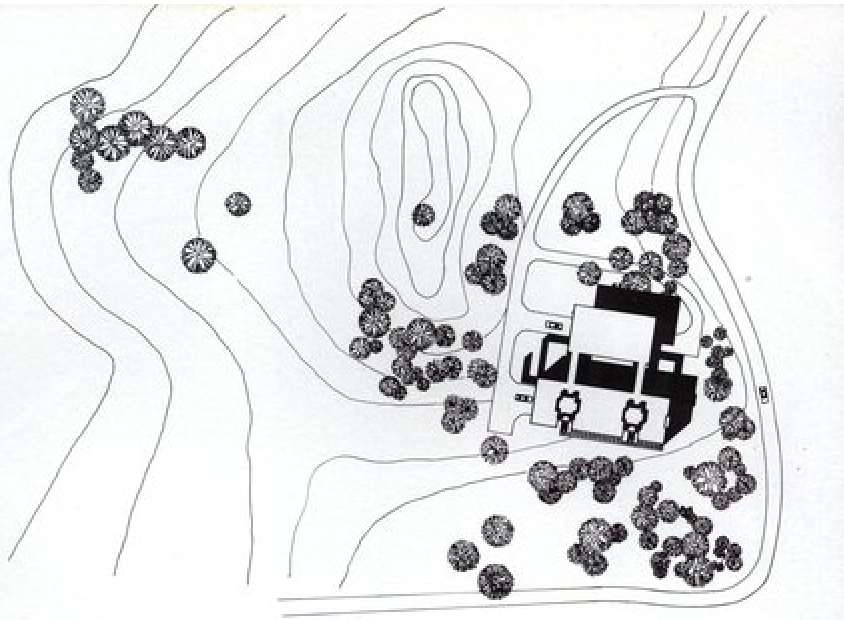


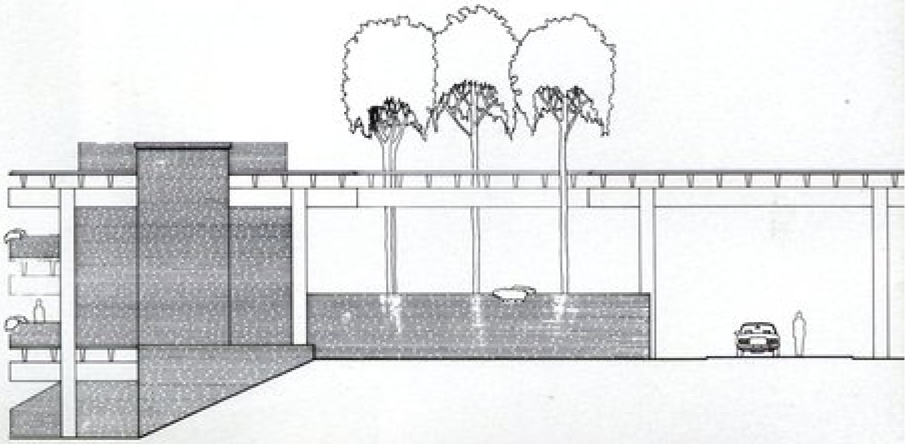
level are Italian quarry tile. Lower level floors, balconies and terraces are scored concrete. The air-conditioning equipment is housed in an enclosure on the roof and the air moves vertically through the four chases located at both entries into the natural horizontal chases between the "double tee" seams. The concrete was left exposed.

The floor plan is horizontal so that each room has a view of the hillside and the lake beyond. It is divided into three levels. The middle, or entry level, houses the two-story living area, dining area, kitchen-family room and utility-playroom. Courtyards are used at this level to create a sense of security from the wilderness outside. Although a three-car garage is on the lower level, a two-story carport is used on the middle level to create a grand sense of arrival similar to the grandiose carriage entries of traditional southern mansions.

The upper level houses the bedrooms and the lower level houses the guest suite, enclosed swimming pool and garage. Balconies are cantilevered from the middle and upper levels to continue the spaces through the glass, to provide weather protection for the glass doors and to enhance the views. The colors of the raw concrete and exposed brick on the exterior blend with the surroundings and give the house a sense of permanence and age.

Diane D. Greer







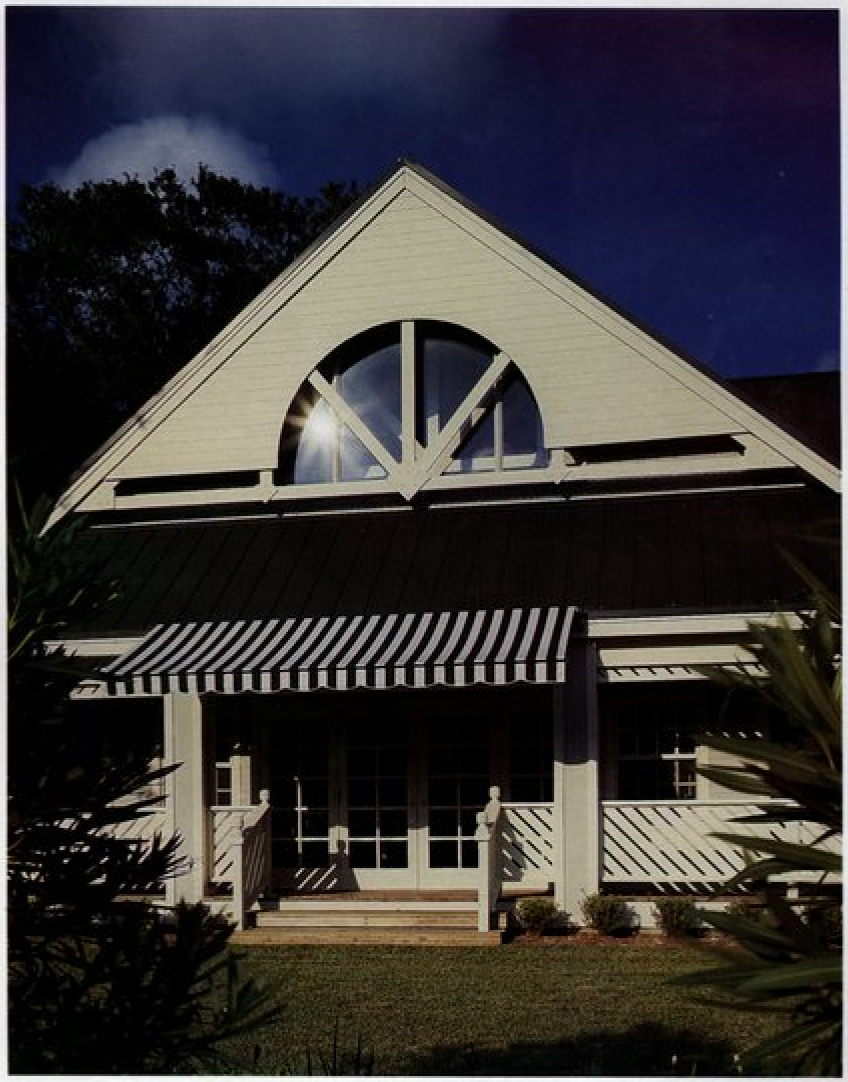
Top, *site plan and* below, *west elevation*. Courtesy of architect. Right, *living area and kitchen beyond*. Opposite page, *family room*. Photos by Gene Leedy, AIA.



A vernacular clinic evokes patient confidence

The Weston Clinic
Clearwater, Florida

Architect: Mudano Associates Architects, Inc.
Principal-in-Charge: Steve Fowler, AIA
Project Designer: Mark Jonnatti, AIA
Landscape Architect: Phil Graham, ASLA
Contractor: Creative Contractors, Inc.
Owner: Dr. Eric Weston



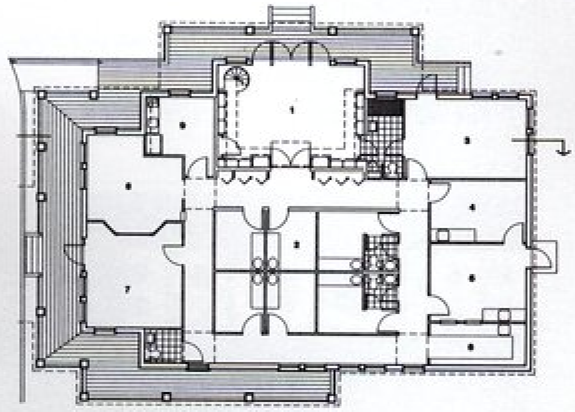
Dr. Eric Weston is a doctor of digestive diseases who wanted an office that would project a friendly ambiance to all his patients. While he specifically requested that the architect design a pleasant, confidence-evoking setting, the doctor also wanted the clinic built in the Florida vernacular style.

The Clearwater firm of Mudano Associates, known primarily for their large shopping center designs, responded with a 3,500 square foot structure that is contextually appropriate to the surrounding neighborhood. Located on a site adjacent to the historic Belleview Biltmore Golf Course, the medical office was carefully placed between several large existing trees and oriented to provide views of the landscape.

A veranda wraps the south and west sides of the office to shade it and capture cooling breezes. The exterior wood detail in the cornice and porch railing offers a touch of invention to a building that draws its articulation primarily from regional precedent.

The program required a clinical arrangement of exam rooms, procedure and recovery rooms. The doctor's private office, however, was lavished with detail and given a residen-





1 Doctor's office
2 Exam rooms
3 Associate's office
4 Procedure room
5 Recovery room
6 Laboratory
7 Waiting room
8 Business office
9 Lunch room

Opposite page, *east front of clinic.* This page, top, *the doctor's private office and below, covered drive can be seen on south side.* All photos by George Cott. Plan courtesy of Mudano Associates.



tial character. The vaulted, two-story office contains an English casework configuration made of hand-rubbed Southern pine. Second level shelves are reached via a spiral staircase and are replete with a hidden door that leads to a storage area. The door is opened by a concealed latch hidden in the book shelves.

The west wall of the doctor's office features two types of custom wood windows and French doors configured in a two-story composition. The gable infill and veranda shade these windows and a canvas awning keeps the glare from the sunset from interrupting the doctor's evening work hours. The office design also includes a porte cochere to protect patients from Florida's afternoon showers as they travel from car to office.

The exposed trusses in the main office area, at the porte cochere and at the gable ends of the building serve both structural and decorative functions. The trusses modulate light, allow air to circulate and, in addition to the standing seam metal roof, become the building's signature feature.

Renee Garrison

The author is the architecture writer for **The Tampa Tribune.**

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Derek Vander Ploeg, President, Vander Ploeg and Associates, Inc., Boca Raton, Florida
Architect: Arbern Financial Center, a Stoltz Brothers building

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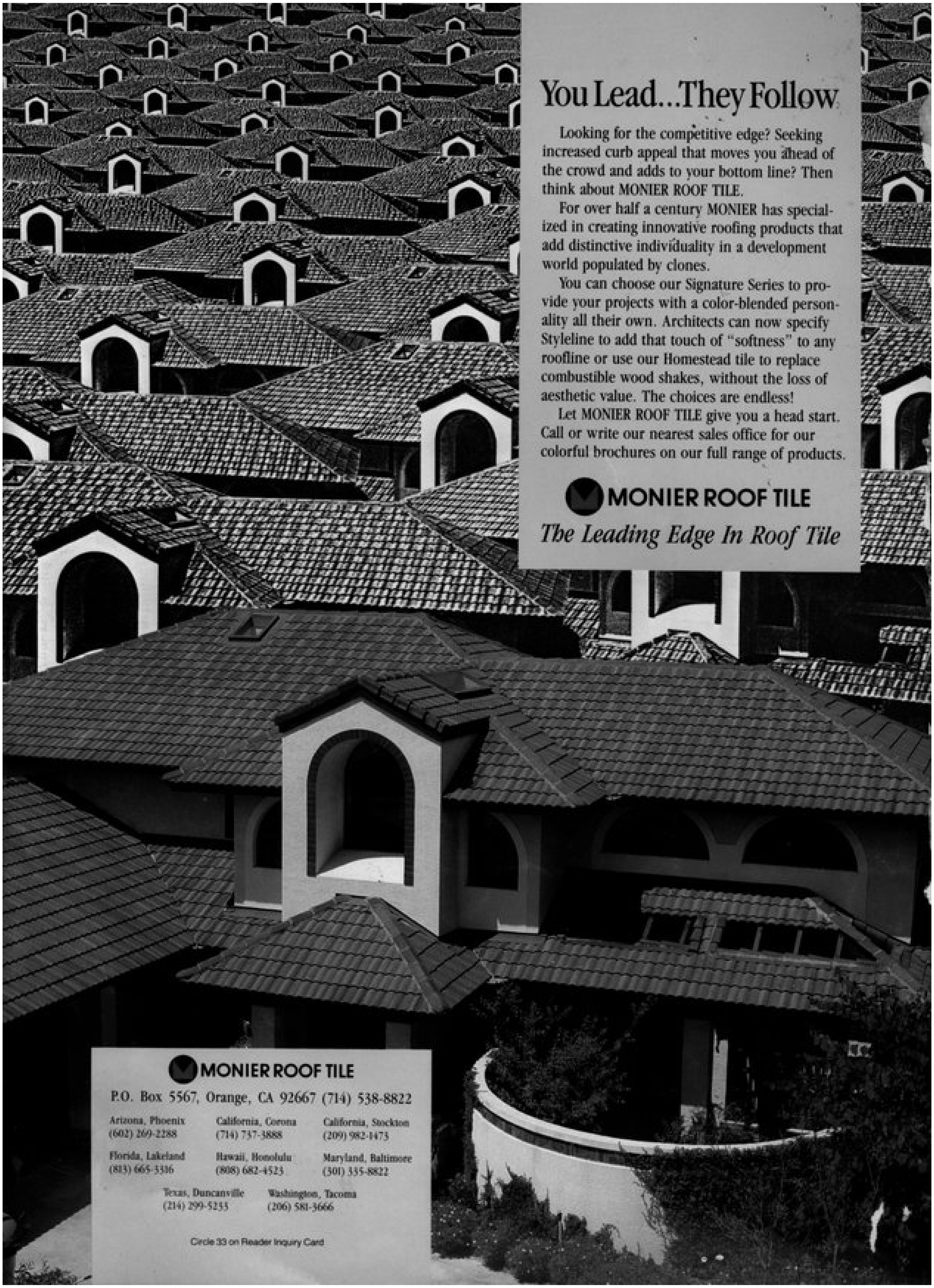
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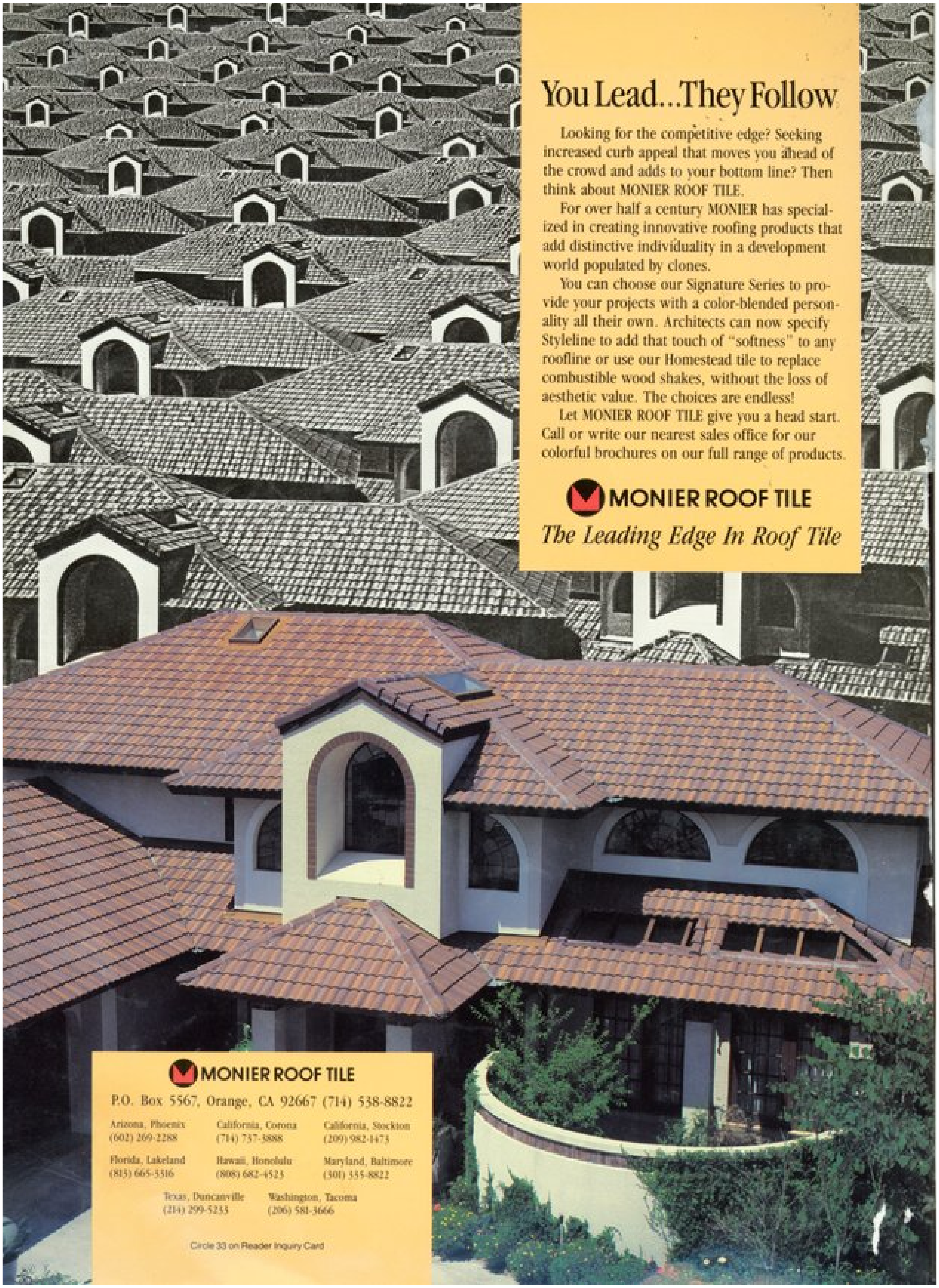
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